



Name of Course: TRAINING ON BASIC MATHEMATICS & REASONING

Duration: 30 Hrs.

Offered by: Ramakrishna Sarada Mission Vivekananda Vidyabhavan

Eligibility: 10 + 2 Passed and RKSMVV Students

Fee Structure:

Admission Fee – Nil

Course Fee – 500/-

Course Overview:

Ramakrishna Sarada Mission Vivekananda Vidyabhavan organizes Training on Basic Mathematics & Reasoning course for students to help the candidates to get success in the various competitive exams. The students will be provided the latest study materials as per the updated exam pattern and the topics covered in the exam. Classes are mock-test oriented. Chapter-wise mock tests are arranged to help the candidates to make this Training preparation in an effective way. Systematic study plans shall be provided to save the time of the students. This training will help the students to cover all the logical reasoning or verbal reasoning and complete quantitative aptitude and data interpretation syllabus in an organized way and get enough time for revisions.

Course Objectives:

The objective of the course is to enable the students:

- To interpret and communicate quantitative information and mathematical and statistical concepts using language appropriate to the context and intended audience.
- To cover all the logical and verbal reasoning and cover quantitative aptitude and data interpretation syllabus in an organized way.
- To make sense of problems, develop strategies to find solutions, and persevere in solving them.
- To reason, model, and make decisions with mathematical, statistical, and quantitative information.
- To evaluate quantitative arguments that utilizes mathematical, statistical, and quantitative information.

Syllabus in Modules:

Training on Basic Mathematics & Reasoning		
Module	Content	Duration(Hrs.)
1	Mathematics (Basics): <ul style="list-style-type: none">• Profit and loss• Numbers problem• Simple and compound interest• Decimal fraction• Surdes and Indices• Train problem• Square root and cube root• SERIES• Figure Counting	5
2	Reasoning (Basics): <ul style="list-style-type: none">• Coding• Relationship	5

	<ul style="list-style-type: none"> • Analogy • Mathematical ability test 	
3	Mathematics (Advanced): <ul style="list-style-type: none"> • Average • Boat and Stream • Pipe • Mixture problem • Time and work problem • Partnership Problem • Problem on Age • Ration and Proportion • Percentage • A.P and G.P • Simplification 	10
4	Reasoning (Advanced): <ul style="list-style-type: none"> • Calendar Problem • Mathematical Ability Test 	8
Final assessment		2
Total Duration		30

Resource Persons:

Sushobhana Pal, State Aided College Teacher, Department of Mathematics,
Ramakrishna Sarada Mission Vivekananda Vidyabhavan

Pravrajika Bhumatmaprana, Monastic Faculty, Department of Mathematics,
Ramakrishna Sarada Mission Vivekananda Vidyabhavan

Learning Outcomes:

After the completion of the course, students will be able:

- To help the students to understand and apply mathematical concepts and reasoning.
- To help the students to analyse and interpret various types of data.

- To prepare the students for assessment through targeted questions on a comprehensive final test or an outside assignment.

Assessment Procedure:

Three Formative Assessments' scores are provided as percentages. The Total Grade is determined based on the overall performance across all assessments. The Continuous Assessment column provides a general evaluation of the students' participation, engagement and adherence to deadlines throughout the course.

Grading criteria along with the corresponding percentage ranges:

A: 90%-100%

B: 80%-89%

C: 70%-79%

D: 60% - 69%

F : Below 60%